

# Kunihiko Nishino

## List of Publications by Year in descending order

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95  
papers

6,440  
citations

66343

42  
h-index

69250

77  
g-index

104  
all docs

104  
docs citations

104  
times ranked

5609  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of efflux pump inhibitors of MexAB- or MexXY-OprM in <i>Pseudomonas aeruginosa</i> using nucleic acid dyes. <i>Journal of Infection and Chemotherapy</i> , 2022, 28, 595-601.	1.7	10
2	Proximal Binding Pocket Arg717 Substitutions in <i>Escherichia coli</i> AcrB Cause Clinically Relevant Divergencies in Resistance Profiles. <i>Antimicrobial Agents and Chemotherapy</i> , 2022, 66, e0239221.	3.2	4
3	Identification of Bacterial Drug-Resistant Cells by the Convolutional Neural Network in Transmission Electron Microscope Images. <i>Frontiers in Microbiology</i> , 2022, 13, 839718.	3.5	0
4	Analysis of multidrug efflux transporters in resistance to fatty acid salts reveals a TolC-independent function of EmrAB in <i>Salmonella enterica</i> . <i>PLoS ONE</i> , 2022, 17, e0266806.	2.5	1
5	Ever-Adapting RND Efflux Pumps in Gram-Negative Multidrug-Resistant Pathogens: A Race against Time. <i>Antibiotics</i> , 2021, 10, 774.	3.7	44
6	Mutations in the Phenicol Exporter Gene <i>fexA</i> Impact Resistance Levels in Three Bacterial Hosts According to Susceptibility Testing and Protein Modeling. <i>Frontiers in Microbiology</i> , 2021, 12, 794435.	3.5	1
7	Function and Inhibitory Mechanisms of Multidrug Efflux Pumps. <i>Frontiers in Microbiology</i> , 2021, 12, 737288.	3.5	52
8	An efflux inhibitor of the MacAB pump in <i>Salmonella enterica</i> serovar Typhimurium. <i>Microbiology and Immunology</i> , 2020, 64, 182-188.	1.4	5
9	Identification of Genetic Variants via Bacterial Respiration Gas Analysis. <i>Frontiers in Microbiology</i> , 2020, 11, 581571.	3.5	0
10	The Golgin Protein Giantin Regulates Interconnections Between Golgi Stacks. <i>Frontiers in Cell and Developmental Biology</i> , 2019, 7, 160.	3.7	24
11	Development of a structure determination method using a multidrug-resistance regulator protein as a framework. <i>Biochemical and Biophysical Research Communications</i> , 2019, 518, 402-408.	2.1	9
12	Native CRISPR-Cas-Mediated Genome Editing Enables Dissecting and Sensitizing Clinical Multidrug-Resistant <i>P. aeruginosa</i> . <i>Cell Reports</i> , 2019, 29, 1707-1717.e3.	6.4	51
13	Phylogenetic and functional characterisation of the <i>Haemophilus influenzae</i> multidrug efflux pump AcrB. <i>Communications Biology</i> , 2019, 2, 340.	4.4	22
14	Crystal structure of the multidrug resistance regulator RamR complexed with bile acids. <i>Scientific Reports</i> , 2019, 9, 177.	3.3	34
15	Crystal structures of multidrug efflux pump MexB bound with high-molecular-mass compounds. <i>Scientific Reports</i> , 2019, 9, 4359.	3.3	26
16	13-(2-Methylbenzyl) Berberine Is a More Potent Inhibitor of MexXY-Dependent Aminoglycoside Resistance than Berberine. <i>Antibiotics</i> , 2019, 8, 212.	3.7	11
17	Multiple entry pathways within the efflux transporter AcrB contribute to multidrug recognition. <i>Nature Communications</i> , 2018, 9, 124.	12.8	87
18	Regulation of the Expression of Bacterial Multidrug Exporters by Two-Component Signal Transduction Systems. <i>Methods in Molecular Biology</i> , 2018, 1700, 239-251.	0.9	3

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19	Large-Scale Femtoliter Droplet Array for Single Cell Efflux Assay of Bacteria. <i>Methods in Molecular Biology</i> , 2018, 1700, 331-341.	0.9	4
20	Analysis of the Dynamics of a Multi-Drug Exporter AcrB in the Absence and Presence of Substrates. <i>Biophysical Journal</i> , 2017, 112, 509a.	0.5	0
21	Hoisting-Loop in Bacterial Multidrug Exporter AcrB Is a Highly Flexible Hinge That Enables the Large Motion of the Subdomains. <i>Frontiers in Microbiology</i> , 2017, 8, 2095.	3.5	13
22	Berberine Is a Novel Type Efflux Inhibitor Which Attenuates the MexXY-Mediated Aminoglycoside Resistance in <i>Pseudomonas aeruginosa</i> . <i>Frontiers in Microbiology</i> , 2016, 7, 1223.	3.5	49
23	A Microfluidic Channel Method for Rapid Drug-Susceptibility Testing of <i>Pseudomonas aeruginosa</i> . <i>PLoS ONE</i> , 2016, 11, e0148797.	2.5	54
24	Phenotype microarray analysis of the drug efflux systems in <i>Salmonella enterica</i> serovar Typhimurium. <i>Journal of Infection and Chemotherapy</i> , 2016, 22, 780-784.	1.7	17
25	Antimicrobial Drug Efflux Pumps in <i>Salmonella</i> . , 2016, , 261-279.		6
26	AcrB-AcrA Fusion Proteins That Act as Multidrug Efflux Transporters. <i>Journal of Bacteriology</i> , 2016, 198, 332-342.	2.2	43
27	Single-Cell Detection and Collection of Persister Bacteria in a Directly Accessible Femtoliter Droplet Array. <i>Methods in Molecular Biology</i> , 2016, 1333, 101-109.	0.9	2
28	Multidrug efflux pumps contribute to <i>Escherichia coli</i> biofilm maintenance. <i>International Journal of Antimicrobial Agents</i> , 2015, 45, 439-441.	2.5	19
29	Mechanisms of antibiotic resistance. <i>Frontiers in Microbiology</i> , 2015, 6, 34.	3.5	150
30	Effect of methylglyoxal on multidrug-resistant <i>Pseudomonas aeruginosa</i> . <i>Frontiers in Microbiology</i> , 2014, 5, 180.	3.5	27
31	AcrB, AcrD, and MdtABC Multidrug Efflux Systems Are Involved in Enterobactin Export in <i>Escherichia coli</i> . <i>PLoS ONE</i> , 2014, 9, e108642.	2.5	98
32	Bile-mediated activation of the <i>acrAB</i> and <i>tolC</i> multidrug efflux genes occurs mainly through transcriptional derepression of <i>ramA</i> in <i>Salmonella enterica</i> serovar Typhimurium. <i>Journal of Antimicrobial Chemotherapy</i> , 2014, 69, 2400-2406.	3.0	39
33	<i>Salmonella enterica</i> serovar Typhimurium multidrug efflux pumps EmrAB and AcrEF support the major efflux system AcrAB in decreased susceptibility to triclosan. <i>International Journal of Antimicrobial Agents</i> , 2014, 44, 179-180.	2.5	16
34	2SEA-06 Regulation and physiological function of bacterial multidrug transporters(2SEA Which is) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.1	0
35	Structural basis for the inhibition of bacterial multidrug exporters. <i>Nature</i> , 2013, 500, 102-106.	27.8	249
36	The crystal structure of multidrug-resistance regulator RamR with multiple drugs. <i>Nature Communications</i> , 2013, 4, 2078.	12.8	98

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37	Design of a large-scale femtoliter droplet array for single-cell analysis of drug-tolerant and drug-resistant bacteria. <i>Frontiers in Microbiology</i> , 2013, 4, 300.	3.5	38
38	Cooperation of the multidrug efflux pump and lipopolysaccharides in the intrinsic antibiotic resistance of <i>Salmonella enterica</i> serovar Typhimurium. <i>Journal of Antimicrobial Chemotherapy</i> , 2013, 68, 1066-1070.	3.0	19
39	Effects of Natural Mutations in the ramRA Locus on Invasiveness of Epidemic Fluoroquinolone-Resistant <i>Salmonella enterica</i> Serovar Typhimurium Isolates. <i>Journal of Infectious Diseases</i> , 2013, 207, 794-802.	4.0	15
40	Alternative explanation for indole-induced antibiotic tolerance in <i>Salmonella</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E4569-E4569.	7.1	9
41	1P035 Structural basis for the inhibition of bacterial multidrug exporters(O1B. Protein:Structure) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	0.1	0
42	1P102 AcrB-AcrA fusion protein indicates that multi-drug efflux transporter complex AcrAB coupling ratio is 1:1(O3.Membrane proteins,Poster,The 51st Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2013, 53, S122.	0.1	0
43	<i>Streptococcus pneumoniae</i> Invades Erythrocytes and Utilizes Them to Evade Human Innate Immunity. <i>PLoS ONE</i> , 2013, 8, e77282.	2.5	30
44	1PT117 Structural study on inhibitor specificity of bacterial multidrug efflux pumps(The 50th Annual) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.1	0
45	3PT115 Structures of the multidrug exporter AcrB reveal a proximal multisite drug-binding pocket(The) Tj ETQq1 1 0.784314 rgBT /O	0.1	0
46	A single-cell drug efflux assay in bacteria by using a directly accessible femtoliter droplet array. <i>Lab on A Chip</i> , 2012, 12, 3923.	6.0	48
47	Covalently linking the <i>Escherichia coli</i> global anaerobic regulator FNR in tandem allows it to function as an oxygen stable dimer. <i>Biochemical and Biophysical Research Communications</i> , 2012, 419, 43-48.	2.1	13
48	Multidrug Efflux Pumps and Development of Therapeutic Strategies to Control Infectious Diseases. , 2012, , 269-279.		0
49	A Microfluidic Device for Simple and Rapid Evaluation of Multidrug Efflux Pump Inhibitors. <i>Frontiers in Microbiology</i> , 2012, 3, 40.	3.5	21
50	Antibacterial and Antifungal Activities of New Acylated Derivatives of Epigallocatechin Gallate. <i>Frontiers in Microbiology</i> , 2012, 3, 53.	3.5	63
51	Impact of Hfq on the Intrinsic Drug Resistance of <i>Salmonella Enterica</i> Serovar Typhimurium. <i>Frontiers in Microbiology</i> , 2012, 3, 205.	3.5	21
52	Effects of indole on drug resistance and virulence of <i>Salmonella enterica</i> serovar Typhimurium revealed by genome-wide analyses. <i>Gut Pathogens</i> , 2012, 4, 5.	3.4	84
53	Effect of overexpression of small non-coding DsrA RNA on multidrug efflux in <i>Escherichia coli</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2011, 66, 291-296.	3.0	40
54	Evaluation of Multidrug Efflux Pump Inhibitors by a New Method Using Microfluidic Channels. <i>PLoS ONE</i> , 2011, 6, e18547.	2.5	95

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55	AcrA dependency of the AcrD efflux pump in <i>Salmonella enterica</i> serovar Typhimurium. <i>Journal of Antibiotics</i> , 2011, 64, 433-437.	2.0	25
56	Roles of <i>Salmonella</i> multidrug efflux pumps in tigecycline resistance. <i>Journal of Antimicrobial Chemotherapy</i> , 2011, 66, 105-110.	3.0	28
57	Regulation of the AcrAB multidrug efflux pump in <i>Salmonella enterica</i> serovar Typhimurium in response to indole and paraquat. <i>Microbiology (United Kingdom)</i> , 2011, 157, 648-655.	1.8	66
58	The Multidrug Efflux Pump MdtEF Protects against Nitrosative Damage during the Anaerobic Respiration in <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2011, 286, 26576-26584.	3.4	77
59	Structures of the multidrug exporter AcrB reveal a proximal multisite drug-binding pocket. <i>Nature</i> , 2011, 480, 565-569.	27.8	304
60	2P124 X-ray structural analysis of RamR, the regulator of the multidrug efflux pump AcrAB in <i>Salmonella enterica</i> (The 48th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsurei</i> , 2010, 50, S104.	0.1	0
61	TolC dependency of multidrug efflux systems in <i>Salmonella enterica</i> serovar Typhimurium. <i>Journal of Antimicrobial Chemotherapy</i> , 2010, 65, 1372-1376.	3.0	98
62	Effect of NlpE Overproduction on Multidrug Resistance in <i>Escherichia coli</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2010, 54, 2239-2243.	3.2	42
63	Impact of the RNA chaperone Hfq on multidrug resistance in <i>Escherichia coli</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2010, 65, 853-858.	3.0	48
64	Indole enhances acid resistance in <i>Escherichia coli</i> . <i>Microbial Pathogenesis</i> , 2010, 49, 90-94.	2.9	45
65	H-NS Modulates Multidrug Resistance of <i>Salmonella enterica</i> Serovar Typhimurium by Repressing Multidrug Efflux Genes <i>acrEF</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2009, 53, 3541-3543.	3.2	33
66	Role of the AraC/XylS family regulator YdeO in multi-drug resistance of <i>Escherichia coli</i> . <i>Journal of Antibiotics</i> , 2009, 62, 251-257.	2.0	18
67	Regulation and physiological function of multidrug efflux pumps in <i>Escherichia coli</i> and <i>Salmonella</i> . <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2009, 1794, 834-843.	2.3	132
68	The AraC-family regulator GadX enhances multidrug resistance in <i>Escherichia coli</i> by activating expression of mdtEF multidrug efflux genes. <i>Journal of Infection and Chemotherapy</i> , 2008, 14, 23-29.	1.7	54
69	Role of xenobiotic transporters in bacterial drug resistance and virulence. <i>IUBMB Life</i> , 2008, 60, 569-574.	3.4	21
70	CRP Regulator Modulates Multidrug Resistance of <i>Escherichia coli</i> by Repressing the mdtEF Multidrug Efflux Genes. <i>Journal of Antibiotics</i> , 2008, 61, 120-127.	2.0	57
71	AcrAB Multidrug Efflux Pump Regulation in <i>Salmonella enterica</i> serovar Typhimurium by RamA in Response to Environmental Signals. <i>Journal of Biological Chemistry</i> , 2008, 283, 24245-24253.	3.4	185
72	AcrS/EnvR Represses Expression of the <i>acrAB</i> Multidrug Efflux Genes in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2008, 190, 6276-6279.	2.2	74

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73	Identification of a Spermidine Excretion Protein Complex (MdtJl) in <i>Escherichia coli</i> . Journal of Bacteriology, 2008, 190, 872-878.	2.2	96
74	Virulence and Drug Resistance Roles of Multidrug Efflux Pumps in <i>Escherichia coli</i> and <i>Salmonella</i> . Bioscience and Microflora, 2008, 27, 75-85.	0.5	5
75	Regulation of Multidrug Efflux Systems Involved in Multidrug and Metal Resistance of <i>Salmonella enterica</i> Serovar Typhimurium. Journal of Bacteriology, 2007, 189, 9066-9075.	2.2	170
76	1P348 Single Cell Measurement of Efflux Activity of Multidrug Transporters Enclosed in Femtoliter Chamber Array(New biophysical techniques and instrumentation,Poster Presentations). Seibutsu Butsurei, 2007, 47, S110.	0.1	0
77	Virulence and drug resistance roles of multidrug efflux systems of <i>Salmonella enterica</i> serovar Typhimurium. Molecular Microbiology, 2006, 59, 126-141.	2.5	342
78	Identification of the lipopolysaccharide modifications controlled by the <i>Salmonella</i> PmrA/PmrB system mediating resistance to Fe(III) and Al(III). Molecular Microbiology, 2006, 61, 645-654.	2.5	76
79	Growth Phase-Dependent Expression of Drug Exporters in <i>Escherichia coli</i> and Its Contribution to Drug Tolerance. Journal of Bacteriology, 2006, 188, 5693-5703.	2.2	106
80	Effect of Drug Transporter Genes on Cysteine Export and Overproduction in <i>Escherichia coli</i> . Applied and Environmental Microbiology, 2006, 72, 4735-4742.	3.1	64
81	N -Acetyl- d -Glucosamine Induces the Expression of Multidrug Exporter Genes, mdtEF , via Catabolite Activation in <i>Escherichia coli</i> . Journal of Bacteriology, 2006, 188, 5851-5858.	2.2	25
82	Genome-Wide Analyses of <i>Escherichia coli</i> Gene Expression Responsive to the BaeSR Two-Component Regulatory System. Journal of Bacteriology, 2005, 187, 1763-1772.	2.2	121
83	Dissecting the PhoP regulatory network of <i>Escherichia coli</i> and <i>Salmonella enterica</i> . Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 2862-2867.	7.1	209
84	Role of Histone-Like Protein H-NS in Multidrug Resistance of <i>Escherichia coli</i> . Journal of Bacteriology, 2004, 186, 1423-1429.	2.2	103
85	Effects of Efflux Transporter Genes on Susceptibility of <i>Escherichia coli</i> to Tigecycline (GAR-936). Antimicrobial Agents and Chemotherapy, 2004, 48, 2179-2184.	3.2	111
86	Membrane topology of ABC-type macrolide antibiotic exporter MacB in <i>Escherichia coli</i> . FEBS Letters, 2003, 546, 241-246.	2.8	69
87	Comprehensive Studies of Drug Resistance Mediated by Overexpression of Response Regulators of Two-Component Signal Transduction Systems in <i>Escherichia coli</i> . Journal of Bacteriology, 2003, 185, 1851-1856.	2.2	151
88	$\beta$ -Lactam resistance modulated by the overexpression of response regulators of two-component signal transduction systems in <i>Escherichia coli</i> . Journal of Antimicrobial Chemotherapy, 2003, 52, 576-582.	3.0	112
89	Roles of TolC-Dependent Multidrug Transporters of <i>Escherichia coli</i> in Resistance to $\beta$ -Lactams. Antimicrobial Agents and Chemotherapy, 2003, 47, 3030-3033.	3.2	130
90	Global Analysis of Genes Regulated by EvgA of the Two-Component Regulatory System in <i>Escherichia coli</i> . Journal of Bacteriology, 2003, 185, 2667-2672.	2.2	75

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91	EvgA of the Two-Component Signal Transduction System Modulates Production of the YhiUV Multidrug Transporter in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2002, 184, 2319-2323.	2.2	134
92	The Putative Response Regulator BaeR Stimulates Multidrug Resistance of <i>Escherichia coli</i> via a Novel Multidrug Exporter System, MdtABC. <i>Journal of Bacteriology</i> , 2002, 184, 4161-4167.	2.2	242
93	Novel Macrolide-Specific ABC-Type Efflux Transporter in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2001, 183, 5639-5644.	2.2	330
94	Overexpression of the Response Regulator evgA of the Two-Component Signal Transduction System Modulates Multidrug Resistance Conferred by Multidrug Resistance Transporters. <i>Journal of Bacteriology</i> , 2001, 183, 1455-1458.	2.2	108
95	Analysis of a Complete Library of Putative Drug Transporter Genes in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2001, 183, 5803-5812.	2.2	580